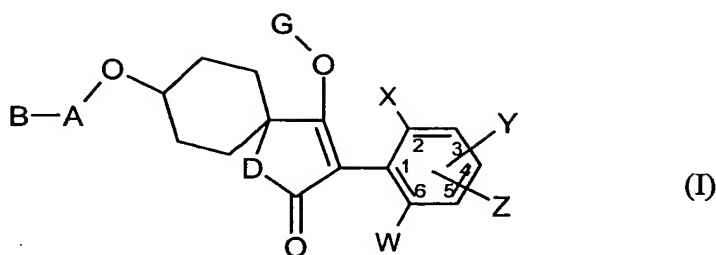


# Patent Claims

1. Compounds of the formula (I),



in which

W represents alkyl or alkoxy,

X represents halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,

Y in the 4-position represents hydrogen, halogen, cyano or haloalkyl,

Z represents hydrogen,

W also represents hydrogen, halogen or alkyl,

X also represents halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,

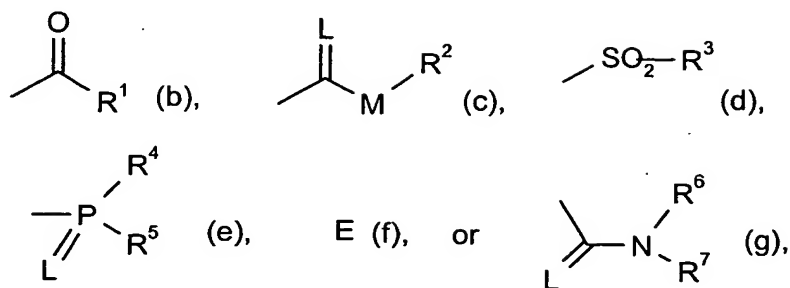
Y in the 4-position also represents optionally substituted phenyl,

Z also represents hydrogen,

W likewise represents hydrogen or alkyl,

X likewise represents halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,

- Y in the 5-position likewise represents optionally substituted phenyl,
- Z in the 4-position likewise represents hydrogen, alkyl or halogen,
- 5 W moreover represents hydrogen, methyl, propyl, isopropyl or halogen,
- X moreover represents halogen, alkyl, alkoxy, haloalkyl, haloalkoxy or cyano,
- 10 Y in the 3- or 5-position moreover represents hydrogen, halogen or alkyl,
- Z in the 4-position moreover represents hydrogen, halogen, alkyl, haloalkyl, cyano or haloalkoxy,
- 15 A represents an optionally substituted alkanediyl group or represents cycloalkyl which is optionally substituted and/or optionally interrupted by a heteroatom,
- B represents optionally substituted alkenyl, alkoxy, alkoxyalkyloxy, phenyl, hetaryl or represents cycloalkyl which is optionally substituted and/or optionally interrupted by heteroatoms and/or C=O,
- 20 D represents NH or oxygen,
- 25 G represents hydrogen (a) or represents one of the groups



where

5 E represents a metal ion or an ammonium ion,

L represents oxygen or sulphur,

M represents oxygen or sulphur,

10

R<sup>1</sup> represents in each case optionally halogen- or cyano-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl or polyalkoxyalkyl or represents in each case optionally halogen-, alkyl- or alkoxy-substituted cycloalkyl or heterocyclyl or represents in each case optionally substituted phenyl, phenylalkyl, hetaryl, phenoxyalkyl or hetaryloxyalkyl,

15

R<sup>2</sup> represents in each case optionally halogen- or cyano-substituted alkyl, alkenyl, alkoxyalkyl or polyalkoxyalkyl or represents in each case optionally substituted cycloalkyl, phenyl or benzyl,

20

R<sup>3</sup>, R<sup>4</sup> and R<sup>5</sup> independently of one another represent in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio or cycloalkylthio or represent in each case optionally substituted phenyl, benzyl, phenoxy or phenylthio,

5  $R^6$  and  $R^7$  independently of one another represent hydrogen, represent in each case optionally halogen- or cyano-substituted alkyl, cycloalkyl, alkenyl, alkoxy, alkoxyalkyl, represents in each case optionally substituted phenyl or benzyl, or together with the N atom to which they are attached form a cycle which optionally contains oxygen or sulphur and which is optionally substituted.

2. Compounds of the formula (I) according to Claim 1, in which

10 W represents  $C_1$ - $C_6$ -alkyl or  $C_1$ - $C_6$ -alkoxy,

X represents halogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy or cyano,

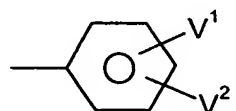
15 Y in the 4-position represents hydrogen, halogen, cyano or  $C_1$ - $C_4$ -haloalkyl,

Z represents hydrogen,

20 W also represents hydrogen, halogen or  $C_1$ - $C_6$ -alkyl,

X also represents halogen,  $C_1$ - $C_6$ -alkyl,  $C_1$ - $C_6$ -alkoxy,  $C_1$ - $C_4$ -haloalkyl,  $C_1$ - $C_4$ -haloalkoxy or cyano,

25 Y in the 4-position also represents the radical



Z also represents hydrogen,

V<sup>1</sup> also represents halogen, C<sub>1</sub>-C<sub>12</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy,

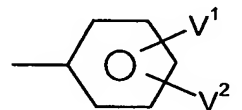
V<sup>2</sup> also represents hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy or C<sub>1</sub>-C<sub>4</sub>-haloalkyl,

V<sup>1</sup> and V<sup>2</sup> together also represent C<sub>3</sub>-C<sub>4</sub>-alkanediyl which may optionally be substituted by halogen and/or C<sub>1</sub>-C<sub>2</sub>-alkyl and which may optionally be interrupted by one or two oxygen atoms,

W likewise represents hydrogen or C<sub>1</sub>-C<sub>6</sub>-alkyl,

X likewise represents halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy or cyano,

Y in the 5-position likewise represents the radical



Z in the 4-position likewise represents hydrogen, C<sub>1</sub>-C<sub>6</sub>-alkyl or halogen,

V<sup>1</sup> likewise represents halogen, C<sub>1</sub>-C<sub>12</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-haloalkyl or C<sub>1</sub>-C<sub>4</sub>-haloalkoxy,

V<sup>2</sup> likewise represents hydrogen, halogen, C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy or C<sub>1</sub>-C<sub>4</sub>-haloalkyl,

V<sup>1</sup> and V<sup>2</sup> together likewise represent C<sub>3</sub>-C<sub>4</sub>-alkanediyl which may optionally be substituted by halogen and/or C<sub>1</sub>-C<sub>2</sub>-alkyl and which may optionally be interrupted by one or two oxygen atoms,

5

Y in the 3- or 5-position moreover represents hydrogen, halogen or C<sub>1</sub>-C<sub>6</sub>-alkyl,

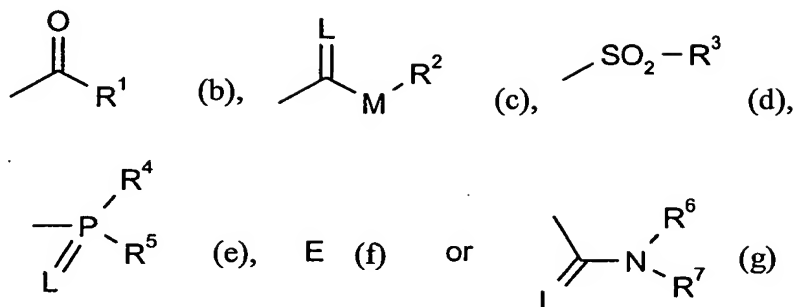
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in which

5 E represents a metal ion or an ammonium ion,

L represents oxygen or sulphur and

M represents oxygen or sulphur,

10

R<sup>1</sup> represents in each case optionally halogen- or cyano-substituted C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>2</sub>-C<sub>20</sub>-alkenyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-alkylthio-C<sub>1</sub>-C<sub>8</sub>-alkyl or poly-C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>1</sub>-C<sub>8</sub>-alkyl or represents optionally halogen-, C<sub>1</sub>-C<sub>6</sub>-alkyl- or C<sub>1</sub>-C<sub>6</sub>-alkoxy-substituted C<sub>3</sub>-C<sub>8</sub>-cycloalkyl in which optionally one or two not directly adjacent methylene groups are replaced by oxygen and/or sulphur,

15

represents optionally halogen-, cyano-, nitro-, C<sub>1</sub>-C<sub>6</sub>-alkyl-, C<sub>1</sub>-C<sub>6</sub>-alkoxy-, C<sub>1</sub>-C<sub>6</sub>-haloalkyl-, C<sub>1</sub>-C<sub>6</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>6</sub>-alkylthio- or C<sub>1</sub>-C<sub>6</sub>-alkylsulphonyl-substituted phenyl,

20

represents optionally halogen-, nitro-, cyano-, C<sub>1</sub>-C<sub>6</sub>-alkyl-, C<sub>1</sub>-C<sub>6</sub>-alkoxy-, C<sub>1</sub>-C<sub>6</sub>-haloalkyl- or C<sub>1</sub>-C<sub>6</sub>-haloalkoxy-substituted phenyl- C<sub>1</sub>-C<sub>6</sub>-alkyl,

25

represents optionally halogen- or C<sub>1</sub>-C<sub>6</sub>-alkyl-substituted 5- or 6-membered hetaryl having one or two heteroatoms from the group consisting of oxygen, sulphur and nitrogen,

5 represents optionally halogen- or C<sub>1</sub>-C<sub>6</sub>-alkyl-substituted phenoxy-C<sub>1</sub>-C<sub>6</sub>-alkyl or

represents optionally halogen-, amino- or C<sub>1</sub>-C<sub>6</sub>-alkyl-substituted 5- or 6-membered hetaryloxy-C<sub>1</sub>-C<sub>6</sub>-alkyl having one or two  
10 heteroatoms from the group consisting of oxygen, sulphur and nitrogen,

R<sup>2</sup> represents in each case optionally halogen- or cyano-substituted C<sub>1</sub>-C<sub>20</sub>-alkyl, C<sub>2</sub>-C<sub>20</sub>-alkenyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>2</sub>-C<sub>8</sub>-alkyl or poly-  
15 C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>2</sub>-C<sub>8</sub>-alkyl,

represents optionally halogen-, C<sub>1</sub>-C<sub>6</sub>-alkyl- or C<sub>1</sub>-C<sub>6</sub>-alkoxy-substituted C<sub>3</sub>-C<sub>8</sub>-cycloalkyl or

20 represents in each case optionally halogen-, cyano-, nitro-, C<sub>1</sub>-C<sub>6</sub>-alkyl-, C<sub>1</sub>-C<sub>6</sub>-alkoxy-, C<sub>1</sub>-C<sub>6</sub>-haloalkyl- or C<sub>1</sub>-C<sub>6</sub>-haloalkoxy-substituted phenyl or benzyl,

R<sup>3</sup> represents optionally halogen-substituted C<sub>1</sub>-C<sub>8</sub>-alkyl or in each case  
25 optionally halogen-, C<sub>1</sub>-C<sub>6</sub>-alkyl-, C<sub>1</sub>-C<sub>6</sub>-alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkyl-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, cyano- or nitro-substituted phenyl or benzyl,

R<sup>4</sup> and R<sup>5</sup> independently of one another represent in each case optionally  
30 halogen-substituted C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy, C<sub>1</sub>-C<sub>8</sub>-alkylamino, di-(C<sub>1</sub>-C<sub>8</sub>-alkyl)amino, C<sub>1</sub>-C<sub>8</sub>-alkylthio or C<sub>3</sub>-C<sub>8</sub>-alkenylthio or represent in each case optionally halogen-, nitro-, cyano-, C<sub>1</sub>-C<sub>4</sub>-



alkoxy-, C<sub>1</sub>-C<sub>4</sub>-haloalkoxy-, C<sub>1</sub>-C<sub>4</sub>-alkylthio-, C<sub>1</sub>-C<sub>4</sub>-haloalkylthio-,  
C<sub>1</sub>-C<sub>4</sub>-alkyl- or C<sub>1</sub>-C<sub>4</sub>-haloalkyl-substituted phenyl, phenoxy or  
phenylthio,

5 R<sup>6</sup> and R<sup>7</sup> independently of one another represent hydrogen, represent in each  
case optionally halogen- or cyano-substituted C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>3</sub>-C<sub>8</sub>-  
cycloalkyl, C<sub>1</sub>-C<sub>8</sub>-alkoxy, C<sub>3</sub>-C<sub>8</sub>-alkenyl or C<sub>1</sub>-C<sub>8</sub>-alkoxy-C<sub>2</sub>-C<sub>8</sub>-  
alkyl, represent in each case optionally halogen-, C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>1</sub>-C<sub>8</sub>-  
haloalkyl- or C<sub>1</sub>-C<sub>8</sub>-alkoxy-substituted phenyl or benzyl or together  
10 represent an optionally C<sub>1</sub>-C<sub>6</sub>-alkyl-substituted C<sub>3</sub>-C<sub>6</sub>-alkylene  
radical in which optionally one methylene group is replaced by oxygen  
or sulphur.

3. Compounds of the formula (I) according to Claim 1 in which

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W represents C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy,

X represents chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-  
haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy or cyano,

20

Y in the 4-position represents hydrogen, chlorine, bromine, cyano or  
trifluoromethyl,

Z represents hydrogen,

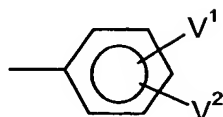
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W also represents hydrogen, chlorine, bromine or C<sub>1</sub>-C<sub>4</sub>-alkyl,

X also represents chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-  
haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy or cyano,

30

Y in the 4-position also represents the radical



Z also represents hydrogen,

5  $V^1$  also represents fluorine, chlorine,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_2$ -haloalkyl or  $C_1$ - $C_2$ -haloalkoxy,

$V^2$  also represents hydrogen, fluorine, chlorine,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy or  $C_1$ - $C_2$ -haloalkyl,

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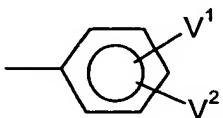
$V^1$  and  $V^2$  together also represent  $-O-CH_2-O-$  and  $-O-CF_2-O-$ ,

W likewise represents hydrogen or  $C_1$ - $C_4$ -alkyl,

15

X likewise represents chlorine,  $C_1$ - $C_4$ -alkyl or  $C_1$ - $C_2$ -haloalkyl,

Y in the 5-position likewise represents the radical



20

Z in the 4-position likewise represents hydrogen,  $C_1$ - $C_4$ -alkyl or chlorine,

$V^1$  likewise represents fluorine, chlorine,  $C_1$ - $C_4$ -alkyl,  $C_1$ - $C_4$ -alkoxy,  $C_1$ - $C_2$ -haloalkyl or  $C_1$ - $C_2$ -haloalkoxy,

25

V<sup>2</sup> likewise represents hydrogen, fluorine, chlorine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy or C<sub>1</sub>-C<sub>2</sub>-haloalkyl,

V<sup>1</sup> and V<sup>2</sup> together likewise represent -O-CH<sub>2</sub>-O- or -O-CF<sub>2</sub>-O-,

5

W moreover represents hydrogen, methyl, chlorine or bromine,

X moreover represents chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy or cyano,

10

Y in the 3- or 5-position moreover represents hydrogen, chlorine, bromine or C<sub>1</sub>-C<sub>4</sub>-alkyl,

Z in the 4-position moreover represents hydrogen, chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, cyano or C<sub>1</sub>-C<sub>2</sub>-haloalkoxy,

15

A represents an optionally C<sub>1</sub>-C<sub>2</sub>-alkyl-substituted C<sub>1</sub>-C<sub>3</sub>-alkanediyl group or represents C<sub>5</sub>-C<sub>6</sub>-cycloalkyl in which optionally a methylene group is replaced by oxygen,

20

B represents C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>1</sub>-C<sub>3</sub>-alkyloxy, each of which is optionally mono- to trisubstituted by fluorine or chlorine, represents phenyl which is optionally mono- to trisubstituted by fluorine, chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy, cyano or nitro, represents pyridyl, pyrimidyl, thiazolyl or thienyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, ethyl or trifluoromethyl or represents C<sub>3</sub>-C<sub>6</sub>-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, methyl, methoxy or trifluoromethyl and in which optionally one methylene group is

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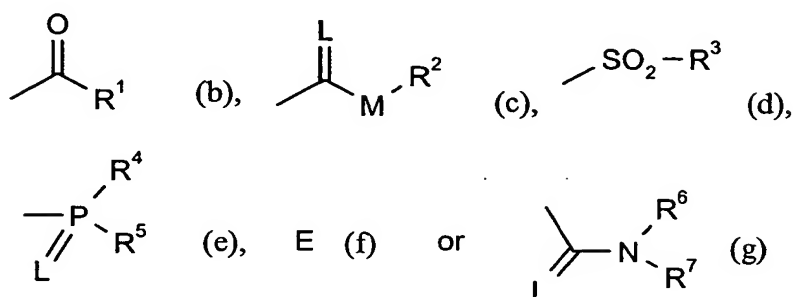
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replaced by oxygen or three methylene groups are replaced by the radical -O-CO-O-,

D represents NH,

5

G represents hydrogen (a) or represents one of the groups



10

in which

E represents a metal ion or an ammonium ion,

L represents oxygen or sulphur and

15

M represents oxygen or sulphur,

R<sup>1</sup> represents C<sub>1</sub>-C<sub>16</sub>-alkyl, C<sub>2</sub>-C<sub>16</sub>-alkenyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkylthio-C<sub>1</sub>-C<sub>4</sub>-alkyl or poly-C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>1</sub>-C<sub>4</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents C<sub>3</sub>-C<sub>7</sub>-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, C<sub>1</sub>-C<sub>5</sub>-alkyl or C<sub>1</sub>-C<sub>5</sub>-alkoxy and in which optionally one or two not directly adjacent methylene groups are replaced by oxygen and/or sulphur,

20

- 5 represents phenyl which is optionally mono- to trisubstituted by fluorine, chlorine, bromine, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>3</sub>-haloalkyl, C<sub>1</sub>-C<sub>3</sub>-haloalkoxy, C<sub>1</sub>-C<sub>4</sub>-alkylthio or C<sub>1</sub>-C<sub>4</sub>-alkylsulphonyl,
- 10 represents phenyl-C<sub>1</sub>-C<sub>4</sub>-alkyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>3</sub>-haloalkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkoxy,
- 15 represents phenoxy-C<sub>1</sub>-C<sub>5</sub>-alkyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine or C<sub>1</sub>-C<sub>4</sub>-alkyl or
- 20 represents pyridyloxy-C<sub>1</sub>-C<sub>5</sub>-alkyl, pyrimidyloxy-C<sub>1</sub>-C<sub>5</sub>-alkyl or thiazolyloxy-C<sub>1</sub>-C<sub>5</sub>-alkyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, amino or C<sub>1</sub>-C<sub>4</sub>-alkyl,
- 25  $R^2$  represents C<sub>1</sub>-C<sub>16</sub>-alkyl, C<sub>2</sub>-C<sub>16</sub>-alkenyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>2</sub>-C<sub>6</sub>-alkyl or poly-C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>2</sub>-C<sub>6</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine,
- 30 represents C<sub>3</sub>-C<sub>7</sub>-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, C<sub>1</sub>-C<sub>4</sub>-alkyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy or
- 30 represents phenyl or benzyl, each of which is optionally mono- to trisubstituted by fluorine, chlorine, bromine, cyano, nitro, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>3</sub>-alkoxy, C<sub>1</sub>-C<sub>3</sub>-haloalkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkoxy,

R<sup>3</sup> represents C<sub>1</sub>-C<sub>6</sub>-alkyl which is optionally mono- to trisubstituted by fluorine or chlorine, or represents phenyl or benzyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>1</sub>-C<sub>2</sub>-haloalkoxy, C<sub>1</sub>-C<sub>2</sub>-haloalkyl, cyano or nitro,

R<sup>4</sup> and R<sup>5</sup> independently of one another represent C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>1</sub>-C<sub>6</sub>-alkylamino, di-(C<sub>1</sub>-C<sub>6</sub>-alkyl)amino, C<sub>1</sub>-C<sub>6</sub>-alkylthio or C<sub>3</sub>-C<sub>4</sub>-alkenylthio, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents phenyl, phenoxy or phenylthio, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, nitro, cyano, C<sub>1</sub>-C<sub>3</sub>-alkoxy, C<sub>1</sub>-C<sub>3</sub>-haloalkoxy, C<sub>1</sub>-C<sub>3</sub>-alkylthio, C<sub>1</sub>-C<sub>3</sub>-haloalkylthio, C<sub>1</sub>-C<sub>3</sub>-alkyl or C<sub>1</sub>-C<sub>3</sub>-haloalkyl,

R<sup>6</sup> and R<sup>7</sup> independently of one another represent hydrogen, represent C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>1</sub>-C<sub>6</sub>-alkoxy, C<sub>3</sub>-C<sub>6</sub>-alkenyl or C<sub>1</sub>-C<sub>6</sub>-alkoxy-C<sub>2</sub>-C<sub>6</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, represent phenyl or benzyl, each of which is optionally mono- to trisubstituted by fluorine, chlorine, bromine, C<sub>1</sub>-C<sub>5</sub>-haloalkyl, C<sub>1</sub>-C<sub>5</sub>-alkyl or C<sub>1</sub>-C<sub>5</sub>-alkoxy or together represent a C<sub>3</sub>-C<sub>6</sub>-alkylene radical which is optionally substituted by C<sub>1</sub>-C<sub>4</sub>-alkyl and in which optionally one methylene group is replaced by oxygen or sulphur.

4. Compounds of the formula (I) according to Claim 1 in which

W represents ethyl or methoxy,

X represents chlorine, bromine, methyl, ethyl, propyl, methoxy, trifluoromethyl, difluoromethoxy, trifluoroethoxy or cyano,

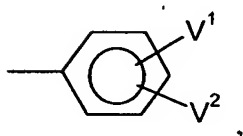
Y in the 4-position represents hydrogen, chlorine or bromine,

Z represents hydrogen,

5 W also represents hydrogen, chlorine, bromine or methyl,

X also represents chlorine, bromine, methyl, ethyl, propyl, methoxy, trifluoromethyl, difluoromethoxy or cyano,

10 Y in the 4-position also represents the radical



Z also represents hydrogen,

15

$V^1$  also represents fluorine, chlorine, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

$V^2$  also represents hydrogen, fluorine, chlorine, methyl, methoxy or trifluoromethyl,

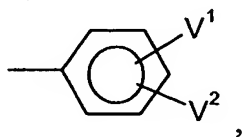
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W likewise represents hydrogen or methyl,

X likewise represents chlorine, methyl or trifluoromethyl,

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Y in the 5-position likewise represents the radical

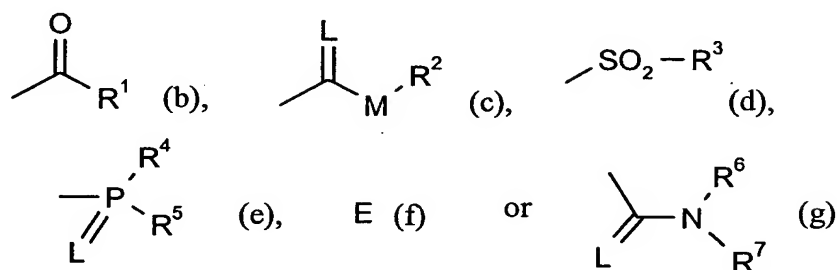


- 5            Z        in the 4-position likewise represents hydrogen or methyl,
- V<sup>1</sup>     likewise represents fluorine, chlorine, methyl, methoxy, trifluoromethyl or trifluoromethoxy,
- V<sup>2</sup>     likewise represents hydrogen, fluorine, chlorine, methyl, methoxy or trifluoromethyl,
- 10           W        moreover represents hydrogen, methyl, chlorine or bromine,
- X        moreover represents chlorine, bromine, methyl, ethyl, propyl, methoxy, trifluoromethyl, difluoromethoxy, trifluoroethoxy or cyano,
- 15           Y        in the 3- or 5-position moreover represents hydrogen, chlorine, bromine or methyl,
- Z        in the 4-position moreover represents hydrogen, chlorine, bromine, methyl, trifluoromethyl or trifluoromethoxy,
- 20           A        represents -CH<sub>2</sub>-, -CHCH<sub>3</sub>-, -CH<sub>2</sub>-CH<sub>2</sub>-, -CH<sub>2</sub>-CH<sub>2</sub>-CH<sub>2</sub>-,
- B        represents C<sub>2</sub>-C<sub>4</sub>-alkenyl, methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro, represents cyclopropyl, represents cyclopentyl or cyclohexyl in which optionally one methylene group is replaced by oxygen,
- 25



D represents NH,

G represents hydrogen (a) or represents one of the groups



in which

E represents a metal ion or an ammonium ion,

L represents oxygen or sulphur and

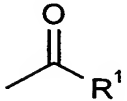
M represents oxygen or sulphur,

$\text{R}^1$  represents  $\text{C}_1\text{-C}_{10}$ -alkyl,  $\text{C}_2\text{-C}_{10}$ -alkenyl,  $\text{C}_1\text{-C}_4$ -alkoxy- $\text{C}_1\text{-C}_2$ -alkyl,  $\text{C}_1\text{-C}_4$ -alkylthio- $\text{C}_1\text{-C}_2$ -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents  $\text{C}_3\text{-C}_6$ -cycloalkyl which is optionally monosubstituted by fluorine, chlorine, methyl, ethyl or methoxy,

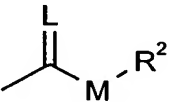
represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, ethyl, n-propyl, i-propyl, methoxy, ethoxy, trifluoromethyl or trifluoromethoxy,

represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine, bromine or methyl,

- R<sup>2</sup> represents C<sub>1</sub>-C<sub>10</sub>-alkyl, C<sub>2</sub>-C<sub>10</sub>-alkenyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>2</sub>-C<sub>4</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine,  
represents cyclopentyl or cyclohexyl  
5 or represents phenyl or benzyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, cyano, nitro, methyl, ethyl, methoxy, trifluoromethyl or trifluoromethoxy,
- R<sup>3</sup> represents methyl, ethyl, propyl or isopropyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, methyl, ethyl, isopropyl, tert-butyl, methoxy, ethoxy, isopropoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,  
10
- R<sup>4</sup> and R<sup>5</sup> independently of one another represent C<sub>1</sub>-C<sub>4</sub>-alkoxy or C<sub>1</sub>-C<sub>4</sub>-alkylthio or represent phenyl, phenoxy or phenylthio, each of which is optionally monosubstituted by fluorine, chlorine, bromine, nitro, cyano, methyl, methoxy, trifluoromethyl or trifluoromethoxy,  
15
- R<sup>6</sup> and R<sup>7</sup> independently of one another represent hydrogen, represent C<sub>1</sub>-C<sub>4</sub>-alkyl, C<sub>3</sub>-C<sub>6</sub>-cycloalkyl, C<sub>1</sub>-C<sub>4</sub>-alkoxy, C<sub>3</sub>-C<sub>4</sub>-alkenyl or C<sub>1</sub>-C<sub>4</sub>-alkoxy-C<sub>2</sub>-C<sub>4</sub>-alkyl, represent phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, methoxy or trifluoromethyl or together represent a C<sub>5</sub>-C<sub>6</sub>-alkylene radical in which optionally one methylene group is replaced by oxygen or sulphur.  
20  
25
5. Compounds of the formula (I) according to Claim 1 in which
- 30 W represents ethyl or methoxy,

- 5 X represents chlorine, bromine, methyl, ethyl, propyl, methoxy, trifluoromethyl, difluoromethoxy or cyano,
- Y in the 4-position represents hydrogen, chlorine or bromine,
- Z in the 5-position represents hydrogen,
- A represents  $-\text{CH}_2-$ ,  $-\text{CHCH}_3-$  or  $-\text{CH}_2\text{CH}_2-$ ,
- 10 B represents  $\text{C}_2\text{-C}_4$ -alkenyl, methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro, represents cyclopropyl, cyclopentyl or cyclohexyl in which optionally one
- 15 methylene group is replaced by oxygen,
- D represents  $\text{NH}$ ,
- G represents hydrogen (a) or represents one of the groups
- 20
- 

(b),



(c)
- in which
- 25 L represents oxygen and
- M represents oxygen or sulphur,
- 30  $\text{R}^1$  represents  $\text{C}_1\text{-C}_6$ -alkyl,  $\text{C}_2\text{-C}_6$ -alkenyl,  $\text{C}_1\text{-C}_2$ -alkoxy- $\text{C}_1\text{-C}_2$ -alkyl,  $\text{C}_1\text{-C}_2$ -alkylthio- $\text{C}_1\text{-C}_2$ -alkyl, each of which is optionally mono- to

trisubstituted by fluorine or chlorine, or represents cyclopropyl, cyclopentyl or cyclohexyl,

5 represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

10 represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine or methyl,

$R^2$  represents  $C_1$ - $C_8$ -alkyl,  $C_2$ - $C_6$ -alkenyl or  $C_1$ - $C_2$ -alkoxy- $C_2$ - $C_3$ -alkyl,

represents cyclopentyl or cyclohexyl,

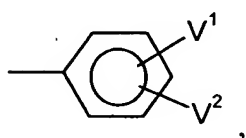
15 or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy.

20 6. Compounds of the formula (I) according to Claim 1 in which

W represents hydrogen, chlorine, bromine or methyl,

X represents chlorine, bromine, methyl, ethyl, propyl, methoxy, trifluoromethyl, difluoromethoxy or cyano,

25 Y in the 4-position represents the radical



30 Z represents hydrogen,

V<sup>1</sup> represents fluorine, chlorine, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

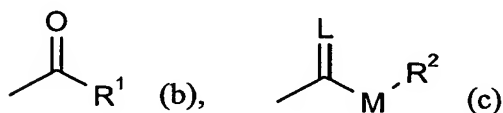
V<sup>2</sup> represents hydrogen, fluorine, chlorine, methyl, methoxy or trifluoromethyl,

A represents -CH<sub>2</sub>-, -CHCH<sub>3</sub>- or -CH<sub>2</sub>-CH<sub>2</sub>-,

B represents C<sub>2</sub>-C<sub>4</sub>-alkenyl, methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

D represents NH,

G represents hydrogen (a) or represents one of the groups



in which

L represents oxygen and

M represents oxygen or sulphur,

R<sup>1</sup> represents C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkylthio-C<sub>1</sub>-C<sub>2</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents cyclopropyl, cyclopentyl or cyclohexyl,

represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

5 represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine or methyl,

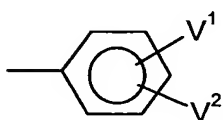
$R^2$  represents  $C_1$ - $C_8$ -alkyl,  $C_2$ - $C_6$ -alkenyl or  $C_1$ - $C_2$ -alkoxy- $C_2$ - $C_3$ -alkyl,  
represents cyclopentyl or cyclohexyl,  
10 or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy.

7. Compounds of the formula (I) according to Claim 1 in which  
15

W represents hydrogen or methyl,

X represents chlorine or methyl,

20 Y in the 5-position represents the radical



Z in the 4-position represents hydrogen or methyl,  
25

$V^1$  represents fluorine, chlorine, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

$V^2$  represents hydrogen, fluorine, chlorine, methyl, methoxy or trifluoromethyl,  
30

A represents  $-\text{CH}_2-$ ,  $-\text{CHCH}_3-$  or  $-\text{CH}_2\text{CH}_2-$ ,

B represents  $\text{C}_2\text{-C}_4$ -alkenyl, methoxy, ethoxy, propoxy, isopropoxy, butoxy, isobutoxy, represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

D represents  $\text{NH}$ ,

G represents hydrogen (a) or represents one of the groups



in which

L represents oxygen and

M represents oxygen or sulphur,

$\text{R}^1$  represents  $\text{C}_1\text{-C}_6$ -alkyl,  $\text{C}_2\text{-C}_6$ -alkenyl,  $\text{C}_1\text{-C}_2$ -alkoxy- $\text{C}_1\text{-C}_2$ -alkyl,  $\text{C}_1\text{-C}_2$ -alkylthio- $\text{C}_1\text{-C}_2$ -alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents cyclopropyl, cyclopentyl or cyclohexyl,

represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine or methyl,

R<sup>2</sup> represents C<sub>1</sub>-C<sub>8</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl or C<sub>1</sub>-C<sub>2</sub>-alkoxy-C<sub>2</sub>-C<sub>3</sub>-alkyl,  
represents cyclopentyl or cyclohexyl,  
or represents phenyl or benzyl, each of which is optionally  
monosubstituted by fluorine, chlorine, cyano, nitro, methyl, methoxy,  
5 trifluoromethyl or trifluoromethoxy.

8. Compounds of the formula (I) according to Claim 1 in which

W represents hydrogen, methyl, chlorine or bromine,

X represents chlorine, bromine, methyl, ethyl, methoxy, trifluoromethyl,  
difluoromethoxy or cyano,

Y in the 3- or 5-position represents hydrogen, chlorine, bromine or  
methyl,

Z in the 4-position represents hydrogen, chlorine, bromine, methyl,  
trifluoromethyl or trifluoromethoxy,

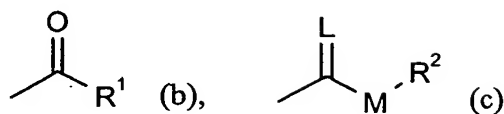
A represents -CH<sub>2</sub>-, -CHCH<sub>3</sub>- or -CH<sub>2</sub>-CH<sub>2</sub>-,

B represents C<sub>2</sub>-C<sub>4</sub>-alkenyl, methoxy, ethoxy, propoxy, isopropoxy,  
butoxy, isobutoxy, represents phenyl which is optionally mono- or  
disubstituted by fluorine, chlorine, bromine, methyl, methoxy,  
trifluoromethyl, trifluoromethoxy, cyano or nitro, represents  
cyclopropyl, represents cyclopentyl or cyclohexyl in which optionally  
one methylene group is replaced by oxygen,

D represents NH,

G represents hydrogen (a) or represents one of the groups





in which

5 L represents oxygen and

M represents oxygen or sulphur,

10 R<sup>1</sup> represents C<sub>1</sub>-C<sub>6</sub>-alkyl, C<sub>2</sub>-C<sub>6</sub>-alkenyl, C<sub>1</sub>-C<sub>2</sub>-alkoxy-C<sub>1</sub>-C<sub>2</sub>-alkyl, C<sub>1</sub>-C<sub>2</sub>-alkylthio-C<sub>1</sub>-C<sub>2</sub>-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents cyclopropyl, cyclopentyl or cyclohexyl,

15 represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

20 represents furanyl, thienyl or pyridyl, each of which is optionally monosubstituted by chlorine or methyl,

25 R<sup>2</sup> represents C<sub>1</sub>-C<sub>10</sub>-alkyl, C<sub>2</sub>-C<sub>10</sub>-alkenyl or C<sub>1</sub>-C<sub>2</sub>-alkoxy-C<sub>2</sub>-C<sub>4</sub>-alkyl, represents cyclopentyl or cyclohexyl, or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy.

9. Compounds of the formula (I) according to Claim 1 in which

30 W represents hydrogen,

X represents methyl or chlorine,

Y in the 5-position represents chlorine-substituted phenyl,

5 Z represents hydrogen,

A represents -CH<sub>2</sub>-,

10 B represents chlorine-substituted phenyl,

D represents NH,

G represents hydrogen.

15 10. Compounds of the formula (I) according to Claim 1 in which

W represents hydrogen or methyl,

20 X represents methyl or chlorine,

Y in the 3- or 5-position represents hydrogen or methyl,

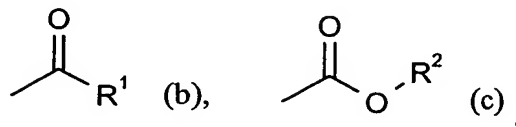
Z in the 4-position represents hydrogen, methyl or chlorine,

25 A represents -CH<sub>2</sub>- or -CH<sub>2</sub>-CH<sub>2</sub>-,

B represents methoxy, ethoxy, isopropyl, cyclopentyl in which optionally one methylene group is replaced by oxygen, cyclohexyl, ethenyl or represents optionally chlorine-substituted phenyl,

30 D represents NH,

G represents hydrogen (a) or represents one of the groups

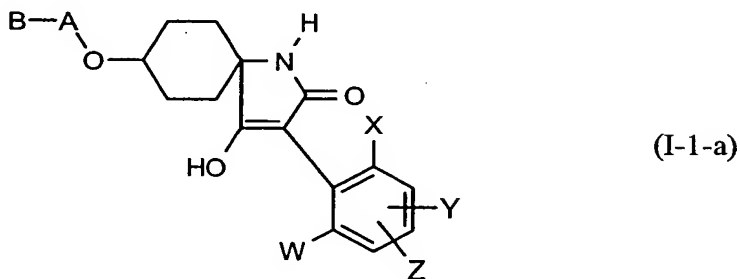


5  $\text{R}^1$  represents  $\text{C}_1\text{-C}_6\text{-alkyl}$ ,

$\text{R}^2$  represents  $\text{C}_1\text{-C}_6\text{-alkyl}$ .

11. Process for preparing compounds of the formula (I) according to Claim 1,  
10 characterized in that, to obtain

(A) compounds of the formula (I-1-a),



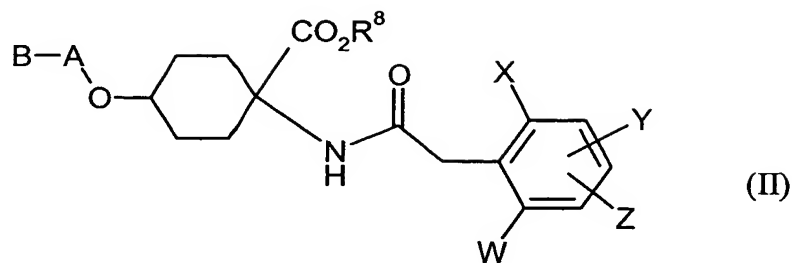
15 in which

A, B, W, X, Y and Z are as defined above,

compounds of the formula (II),

20

- 177 -



in which

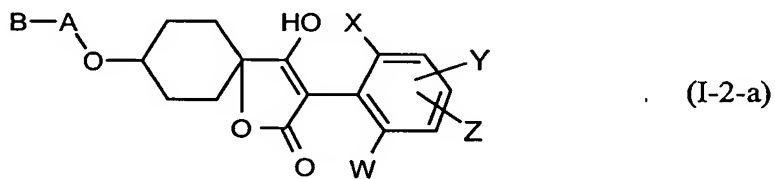
A, B, W, X, Y and Z are as defined above

and

R<sup>8</sup> represents alkyl

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

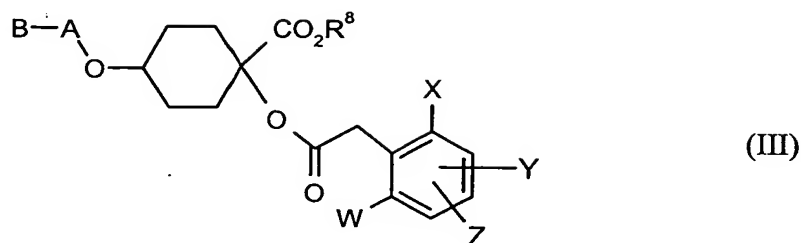
(B) compounds of the formula (I-2-a),



in which

A, B, W, X, Y and Z are as defined above,

compounds of the formula (III),



in which

A, B, W, X, Y, Z and R<sup>8</sup> are as defined above

5

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(C) compounds of the formulae (I-1-b) to (I-2-b) shown above in which R<sup>1</sup>, A, B, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

10

α) reacted with compounds of the formula (IV)

15



in which

R<sup>1</sup> is as defined above and

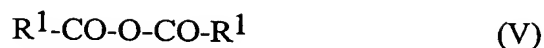
20

Hal represents halogen

or

25

β) are reacted with carboxylic anhydrides of the formula (V),



in which

5  $\text{R}^1$  is as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder;

10 (D) compounds of the formulae (I-1-c) to (I-2-c) shown above in which  $\text{R}^2$ , A, B, W, M, X, Y and Z are as defined above and L represents oxygen, compounds of the formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

15 reacted with chloroformic esters or chloroformic thioesters of the formula (VI),



in which

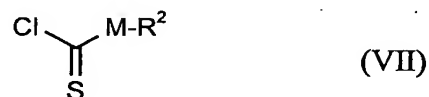
20  $\text{R}^2$  and M are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder;

25 (E) compounds of the formulae (I-1-c) to (I-2-c) shown above in which  $\text{R}^2$ , A, B, W, M, X, Y and Z are as defined above and L represents sulphur, compounds of the formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

30

reacted with chloromonothioformic esters or chlorodithioformic esters of the formula (VII),



5 in which

M and R<sup>2</sup> are as defined above,

10 if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder;

(F) 15 compounds of the formulae (I-1-d) to (I-2-d) shown above in which R<sup>3</sup>, A, B, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

reacted with sulphonyl chlorides of the formula (VIII),



20

in which

R<sup>3</sup> is as defined above,

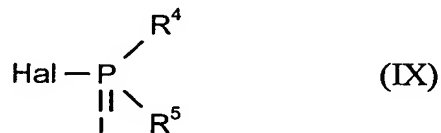
25

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder;

(G) compounds of the formulae (I-1-e) to (I-2-e) shown above in which L, R<sup>4</sup>, R<sup>5</sup>, A, B, W, X, Y and Z are as defined above, compounds of the

formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

reacted with phosphorus compounds of the formula (IX),



in which

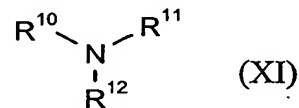
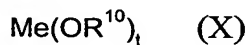
L, R<sup>4</sup> and R<sup>5</sup> are as defined above and

Hal represents halogen,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(H) compounds of the formulae (I-1-f) to (I-2-f) shown above in which E, A, B, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-2-a) in which A, B, W, X, Y and Z are as defined above are in each case

reacted with metal compounds or amines of the formulae (X) and (XI), respectively



in which

Me represents a mono- or divalent metal,



t represents the number 1 or 2 and

$R^{10}$ ,  $R^{11}$ ,  $R^{12}$  independently of one another represent hydrogen or alkyl,

5

if appropriate in the presence of a diluent,

- (I) compounds of the formulae (I-1-g) to (I-2-g) shown above in which L,  $R^6$ ,  $R^7$ , A, B, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-2-a) shown above in which A, B, W, X, Y and Z are as defined above are in each case

10

$\alpha$ ) reacted with isocyanates or isothiocyanates of the formula (XII),

15



in which

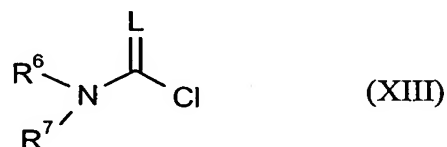
20

$R^6$  and L are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of a catalyst, or

25

- $\beta$ ) are reacted with carbamoyl chlorides or thiocarbamoyl chlorides of the formula (XIII),



30

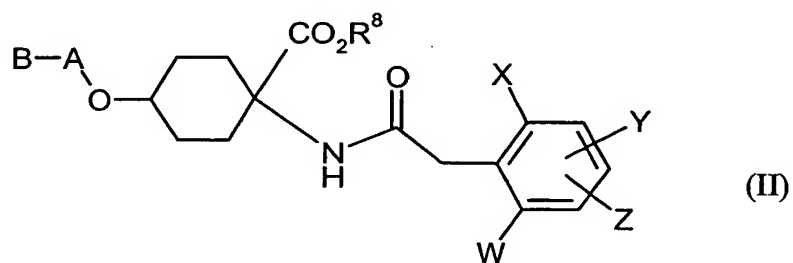
in which

L, R<sup>6</sup> and R<sup>7</sup> are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder.

5

12. Compounds of the formula (II),

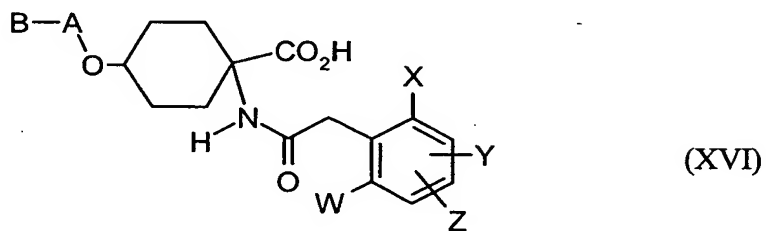


in which

10

A, B, W, X, Y, Z and R<sup>8</sup> are as defined above.

13. Compounds of the formula (XVI),



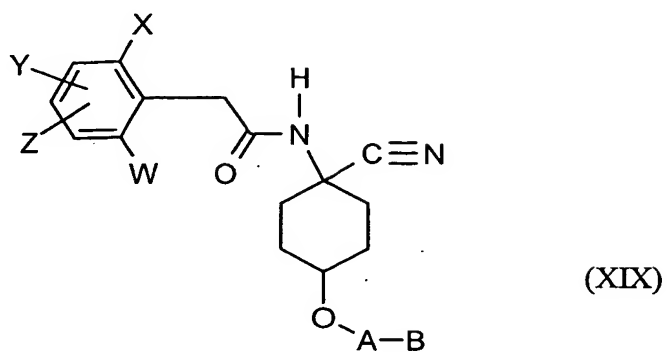
15

in which

A, B, W, X, Y and Z are as defined above.

20

14. Compounds of the formula (XIX),

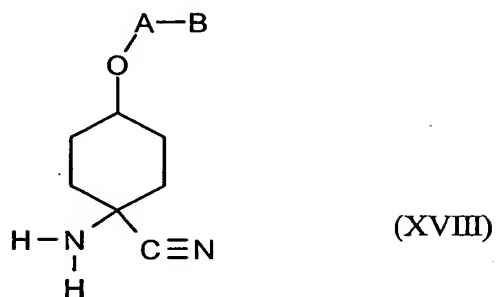


in which

A, B, W, X, Y and Z are as defined above.

5

15. Compounds of the formula (XVIII),

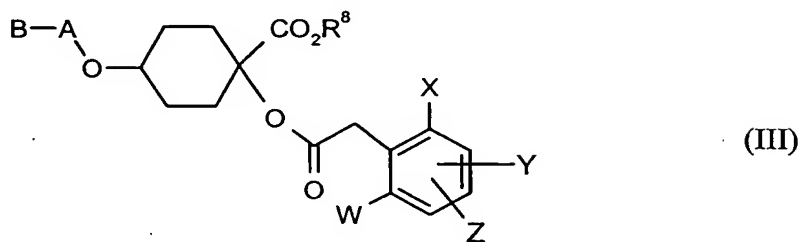


in which

10

A and B are as defined above.

16. Compounds of the formula (III),



15

in which

A, B, W, X, Y, Z and R<sup>8</sup> are as defined above.

- 5
17. Pesticides, herbicides and fungicides, characterized in that they comprise at least one compound of the formula (I) according to Claim 1.
18. Method for controlling animal pests, unwanted vegetation and fungi, characterized in that compounds of the formula (I) according to Claim 1 are allowed to act on pests, unwanted vegetation, fungi and/or their habitat.
- 10 19. Use of compounds of the formula (I) according to Claim 1 for controlling animal pests, unwanted vegetation and fungi.
20. Process for preparing pesticides, herbicides and fungicides, characterized in that compounds of the formula (I) according to Claim 1 are mixed with  
15 extenders and/or surfactants.
21. Use of compounds of the formula (I) according to Claim 1 for preparing pesticides, herbicides and fungicides.